

NEIFELD REF.: TACT0001

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Application No. : 09/666,068 Confirmation No. 6420

Patent No. : 6,379,666 Issued April 30, 2002

Applicant : Edward L. Tobinick

Filed : 12/11/2000

TC/A.U. : 1614

Examiner : Jarvis, William R. A.

37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION
OF APPLICANT'S MISTAKE

HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS
ALEXANDRIA, VA 22313

SIR:

The following is a request for a certificate of correction in Serial Number 09/666,068, now Patent Number 6,379,666. A certificate of correction under 35 USC 255 is respectfully requested in the above-identified patent.

At least one error is the fault of the applicant, and, accordingly, \$100.00 is submitted to pay the fee for a Certificate of Corrections (35 USC 255 and 37 CFR 1.323). The errors are minor and their correction would not entail re-examination or constitute new matter, and are readily apparent from the USPTO file histories, attached, and explained below.

The requested corrections are below on Form PTO 1050.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,379,666

ISSUED : April 30, 2002

INVENTORS(S) : Edward L. Tobinick

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 1, lines 6 - 10, please delete the following paragraph:

"This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat No. 6,177,077, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned."

and insert therefore:

-- This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat No. 6,177,077, which is a continuation-in-part of Serial No. 09/275,070, filed March 23, 1999, now U.S. Pat No. 6,015,557, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned. --

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION (CONTINUED)

On the front page of the patent, please delete the following paragraph:

"Divisional of application No. 09/476,643, filed on Dec. 31, 1999, now Pat No. 6,177,077, which is a continuation-in-part of application No. 09/256,388, filed on Feb. 24, 1999, now abandoned."

and insert therefore:

-- This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat No. 6,177,077, which is a continuation-in-part of Serial No. 09/275,070, filed March 23, 1999, now U.S. Pat No. 6,015,557, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned. --

MAILING ADDRESS OF SENDER:

PATENT NO. 6,379,666

No. of additional copies: 0

Neifeld IP Law, PC
4813-B Eisenhower Avenue
Alexandria, Virginia 22304

I. STATEMENT OF THE RELIEF REQUESTED

The applicant requests entry in this issued application of a Certificate of Correction that corrects the benefit claim under 35 U.S.C. §120.

The chain of priority in 09/666,068 is missing a reference to application 09/275,070. As explained below, the priority chain should refer to 09/275,070 between 09/476,643 and 09/256,388, and it should specify that 09/476,643 is a continuation-in-part of 09/275,070.

In an amendment submitted herewith, page 1 of the specification (the paragraph starting with "RELATED APPLICATIONS") is amended as follows (marked-up):

This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat No. 6,177,077, which is a continuation-in-part of Serial No. 09/275,070, filed March 23, 1999, now U.S. Pat No. 6,015,557, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned.

II. MATERIAL FACTS

A. CHAIN OF APPLICATION FILINGS

1. On February 24, 1999, the applicant filed Serial No. 09/256,388, with an original U.S. inventor declaration.
2. On September 16, 1999, applicant filed a notice of express abandonment that stated:
"Re: S.N. 09/256,388 Applicant hereby abandons the above-identified application in favor of Appln. S.N. 09/275,070, which has been allowed by Examiner Jarvis."
3. Serial No. 09/275,070 was filed on March 23, 1999, and matured into U.S. 6,015,557 on January 18, 2000. The applicant filed an original U.S. inventor declaration in 09/275,070, which specifically referred to S.N. 09/256,388.
4. Applicant filed Serial No. 09/476,643 on December 31, 1999, which is prior to January 18, 2000, and was therefore co-pending with S.N. 09/275,070. Applicant filed an original U.S. inventor declaration attached to the specification in 09/476,643 that did not refer to any prior applications.
5. Page 1 of the '643 specification, under the heading "RELATED APPLICATION" stated erroneously that "This is a continuation-in-part of Application Serial No. 09/256,388, filed on February 24, 1999." This statement is erroneous because 09/256,388 had been expressly abandoned on September 16, 1999 (before the '643 application was filed) in favor of 09/275,070 which was

still pending when the '643 application was filed.

6. On July 21, 2000, applicant filed a "new" (i.e., a second) original U.S. inventor declaration in 09/476,643 that specifically refers to 09/256,388 and to 09/275,070, thus correcting priority and preserving co-pendency throughout all applications in the chain.

7. Serial No. 09/476,643 matured into U.S. 6,177,077 on January 23, 2001. On page 1 of the patent specification, as amended on July 21, 2000, it states "This application is a continuation-in-part of Ser. No. 09/275,070, filed March 23, 1999, now U.S. Pat No. 6,015,557, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned."

7. Applicant first filed the subject divisional (Ser. No. 09/666,068) on September 19, 2000, but later was accorded an official filing date of December 11, 2000, which however is still prior to January 23, 2001. Thus divisional 09/666,068 was co-pending with its parent application 09/476,643. The applicant filed the same inventive specification, a copy of the U.S. inventor declaration from 09/476,643, and relied upon that copy of the original inventor declaration to secure the December 11, 2000 filing date.

8. On 12/06/2000, applicant filed a request for Correction of Filing Receipt stating erroneously: "THIS APPLICATION IS A DIV OF 09/476,643, DATED 12/31/1999, WHICH IS A CIP OF 09/256,388, DATED 2/24/1999, ABANDONED." This statement is erroneous because 09/476,643 is actually a continuation-in-part of Ser. No. 09/275,070, and cannot be a continuation-in-part of 09/256,388, due to lack of co-pendency, as explained above.

9. On 11/15/2001, the Related Application statement on page 1 of subject application 09/666,068 was amended by the Examiner (as indicated by handwritten, dated initials) to add the following underlined text: "This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat No. 6,177,077, which is a continuation-in-part of Application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned." This statement is erroneous because 09/476,643 is actually a continuation-in-part of Ser. No. 09/275,070, and cannot be a continuation-in-part of 09/256,388, due to lack of co-pendency, as explained above.

11. On 02/22/2001, an Official Filing Receipt was issued in 09/666,068 stating "THIS APPLICATION IS A DIV OF 09/476,643, 12/31/1999, PAT 6,177,077 WHICH IS A CIP OF 09/256,388, 2/24/1999, ABANDONED." This statement is erroneous because 09/476,643 is in fact a continuation-in-part of Ser. No. 09/275,070, and cannot be a continuation-in-part of 09/256,388, due

to lack of co-pendency, as explained above.

12. So in 09/666,068, the applicant's request for Correction of Filing Receipt (12/06/2000), the Examiner's amendment to the specification (11/15/2001), and the Official Filing Receipt (03/22/2001) are all incorrect. That is because 09/476,643 is actually a continuation-in-part of Serial No. 09/275,070, while 09/275,070 is a CIP of 09/256,388.

13. As a result of these facts the 09/666,068 application contains an erroneous priority chain.

B. USPTO RECORDS SHOWING THE BENEFIT CLAIM IN 09/666,068

14. Exhibit 1 is a copy of the 2 page transmittal letter, and page 1 of the specification filed on 09/19/2000 in application 09/666,068. The upper left hand corner of Exhibit 1 has a USPTO date stamp showing "09/19/00" The upper right hand corner shows the USPTO application number "09/666,068."

15. Exhibit 1, pages 1 and 2, indicate that 09/666,068 was filed as a Rule 60 divisional incorporating the prior specification and inventor declaration. Item 8 is checked, and amends the specification before the first line to recite "division of application number 09/476,643, filed Dec. 31, 1999."

16. Exhibit 1 page 3 shows the original first sentence of the specification, i.e., "This is a continuation-in-part of application Serial No. 09/256,388, filed on February 24, 1999" along with the Examiner's handwritten amendment dated 11/15/2001, revising the priority claim to recite "This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat No. 6,177,077, which is a continuation-in-part of Application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned." (marked-up)

17. Exhibit 2, pages 1 and 2 shows the applicant filed a copy of the original U.S. inventor declaration from 09/476,643, signed by Edward L. Tobinick, M.D. on December 29, 1999, and relied upon that copy to secure the December 11, 2000 filing date.

18. Exhibit 2, page 3 shows applicant requested a correction of filing receipt, dated-stamped "12/06/2000," in stating erroneously: "THIS APPLICATION IS A DIV OF 09/476,643, DATED 12/31/1999, WHICH IS A CIP OF 09/256,388, DATED 2/24/1999, ABANDONED."

19. Exhibit 3, pages 3 - 4 show a two page transmittal letter, date-stamped "Dec 11, 2000" filed in response to the Notice to File Missing Parts, listing "A copy of the Declaration from the parent application (U.S. Serial No. 09/476,643)".

20. Exhibit 3, pages 1 is a Official Filing Receipt mailed "01/24/2001." Exhibit 3, page 2 is an Official Filing Receipt mailed "02/22/2001."
21. Application 09/666,068 issued as USP 6,379,666.
22. Exhibit 4 is a printout of the first two columns of USP 6,379,666.
23. Exhibit 4 shows that the first sentence of USP 6,379,666 recites "This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat No. 6,177,077, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned."
24. **The foregoing facts show that the USPTO records show that application 09/666,068 is a divisional of 09/476,643.**

C. USPTO RECORDS SHOWING THE BENEFIT CLAIM IN 09/476,643

25. Exhibit 5, pages 1 and 2 shows the original inventor declaration from application 09/476,643, signed by Edward L. Tobinick, M.D., on December 29, 1999. Exhibit 5, page 3 is the first page of the PTO file history for application 09/476,643, stating in the examiner's handwriting verification that "THIS APPLN is a CIP OF 09/275,070 03/23/99 PAT 6,015,557 WHICH IS A CIP OF 09/256,388 02/24/99 ABN"
26. Exhibit 6, page 1 is a one page transmittal letter dated "December 31, 1999 BY EXPRESS MAIL" for a new application showing the filing of an original inventor's declaration. At the upper left is the date "12/31/99" and at the upper right is the serial number "09/476643". Exhibit 6, page 2 shows the first page of the specification, which one can see originally said "This is a continuation-in-part of Application Serial No. 09/256,388, filed on February 24, 1999." This sentence was crossed-out by the examiner.
27. Exhibit 7, page 1 is the first page of the PTO File History, amended in handwriting by the examiner to state "This Appln is a CIP OF 09/275,070 PAT #6,015,557 WHICH IS A CIP OF 09/256,388 02/24/99 ABN." Exhibit 7, page 2 is another copy of the one page transmittal letter dated "December 31, 1999 BY EXPRESS MAIL," for a new application showing the filing of an original inventor's declaration. At the upper left is the date "12/31/99" and at the upper right is the serial number "09/476643". Exhibit 7, page 3 is an inventor declaration filed with the application. Exhibit 7, page 4 shows the first page of the specification as filed, which stated "This is a continuation-in-part of Application Serial No. 09/256,388, filed on February 24, 1999". This sentence was later crossed-out by the examiner.

28 Exhibit 8, page 1 is a Terminal Disclaimer over US 6,015,557, and page 2 is an original inventor declaration claiming benefit of application "09/275,070 March 23, 1999 U.S. Patent No. 6,015,557" and "09/256,388 February 24, 1999 Abandoned"

29 Exhibit 9, page 2 shows the handwritten amendment by the examiner, dated 8/24/2000 changing the first sentence of the specification to recite "'This application is a continuation-in-part of Application Serial No. 09/275,070, filed on March 23, 1999, now U.S. Patent 6,015,557, which is a continuation-in-part of Application Ser. No. 09/256,388, filed on February 24, 1999, now abandoned"

30. Exhibit 10 is a printout of the first two columns of US 6,177,077, stating in the first paragraph that "This application is a continuation-in-part of Application Serial No. 09/275,070, filed on Mar 23, 1999, now U.S. Pat. No. 6,015,557, which is a continuation-in-part of Application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned."

31. **The foregoing facts show that the USPTO records show that application 09/476,643 was a continuation-in-part of 09/275,070.**

D. **USPTO RECORDS SHOWING THE BENEFIT CLAIM IN 09/275,070**

32. Exhibit 11, page 1 is a transmittal letter dated "March 23, 1999 BY EXPRESS MAIL." Page 2 is the first page of the specification as filed.. Pages 3 and 4 are a copy of the original inventor declaration, claiming benefit under 35 USC 120 to "09/256,388 24 February 1999 pending" signed on 3-20-99 by two inventors, Dr. Edward L. Tobinick, and Arthur Jerome Tobinick. Pages 5-8 are a copy of a Petition to Make Special filed March 23, 1999. At the upper right on page 5 is the serial number "09/257070" and the date "03/23/99".

33. Exhibit 12 is a printout of the first two columns of US 6,015,557, stating in the first paragraph that "This application is a continuation-in-part of Application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned."

34. **The foregoing facts show that the USPTO records show that application 09/275,070 was a continuation-in-part of 09/256,388.**

E. **USPTO RECORDS SHOWING THE FILING DATE OF 09/256,388**

35 Exhibit 13, page 3 is a copy of the first page USPTO file history for application 09/256,388. showing "FILING DATE 02/24/99." Pages 1 - 2 show the original inventor declaration, dated

February 21, 1999, signed by two inventors, Dr. Edward L. Tobinick, and Arthur Jerome Tobinick. In 09/256,388, inventor "Edward L. Tobinick, M.D." is the same person as "Dr. Edward L. Tobinick" in 09/275,070 (and "Edward L. Tobinick, M.D." in 09/476,643).

36. Exhibit 14 is another copy of the inventor declaration. Page 2 is transmittal letter dated "FEBRUARY 24, 1999 BY EXPRESS MAIL" listing the filing of an inventor declaration, and specification. Page 3 of Exhibit 14 is the first page of the specification as filed.

37. Exhibit 15, pages 1 - 2 is a Notice of Abandonment "mailed 09/27/99." Exhibit 15, page 3 is communication by applicant dated 9/16/99 stating: "Re: S.N. 09/256,388 Applicant hereby abandons the above-identified application in favor of Appln. S.N. 09/275,070, which has been allowed by Examiner Jarvis."

38. **The foregoing show that the USPTO records show that application 09/256,388 was filed on February 24, 1999 and abandoned on Sept. 16, 1999.**

F. FACTS WHY THE REQUESTED RELIEF IS NOT MOOT

39. Pending Tobinick application 12/714,205 claims priority to 09/666,068 as "a continuation of application Serial No. 11/262,528, filed on Oct. 28, 2005, which is a division of application Ser. No. 10/269,745, filed Oct. 9, 2002, now U.S. Pat. No. 6,982,089, which is a continuation-in-part of application Ser. No. 09/841,844, filed on Apr. 25, 2001, now U.S. Pat. No. 6,537,549, which is a continuation-in-part of application Ser. No. 09/826,976, filed on Apr. 5, 2001, now U.S. Pat. No. 6,419,944, which is a continuation-in-part of application Ser. No. 09/666,068, filed Dec. 11, 2000, now U.S. Pat. No. 6,379,666, which is a division of application Ser. No. 09/476,643, filed on Dec. 31, 1999, now U.S. Pat. No. 6,177,077, which is a continuation-in-part of application Ser. No. 09/275,070, filed on Mar. 23, 1999, now U.S. Pat. No. 6,015,557, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned." (emphasis added)

G. FACTS SHOWING THE FAILURE TO PROPERLY CLAIM BENEFIT WAS UNINTENTIONAL

40. The foregoing facts 1 - 39 show that failure to claim in this application priority to 09/666,068 was an unintentional clerical error.

**H. FACTS RELATING TO THE LEGAL STANDARD FOR ENTRY OF
CORRECTION OF BENEFIT CLAIMS**

41 Exhibit 16 is a copy of pages from Section 1481.03 of the current version of the MPEP.

I. RELATED USPTO PROCEEDINGS

42. The applicant is presenting herewith an Amendment to correct benefit in prior application 09/666,068.
43. The applicant is filing herewith a corresponding request for a certificate of correction in the patent that issued from this application, U.S. Pat. 6,379,666.

III. REASONS WHY THE PETITION SHOULD BE GRANTED

On the merits, the petition should be granted because (1) the relief requested is not moot; (2) an amendment as to benefit in an issued application is submitted herewith, (3) all of the elements required under 37 CFR 1.78(a)(3) have been presented, so awarding a corrected priority chain in application Ser. No. 09/666,068 is proper, and (4) a request for the appropriate Certificate of Correction has been filed.

A. STANDARD FOR GRANT OF PETITION

1. FORMAL MATTERS

The petition filed herewith requests entry of an amendment in an issued application filed after November 29, 2000. Therefore petition under Rule 1.78 is proper.

(CX13 "Eighteen-Month Publication Questions and Answers"

<http://www.uspto.gov/patents/law/aipa/18month/18monthfaq.jsp#cx>)

The applicant is paying the 37 CFR 1.17(t) fee therefore via credit card upon EFS web submission of the petition.

2. THE PETITION IS NOT MOOT

The petition is not moot because, even though 09/666,068 is issued, a pending application claims priority to this application. Fact 39.

3. CRITERIA FOR CORRECTION OF BENEFIT

The amendment and accompanying petition is to correct benefit. The requirements to obtain benefit and to correct benefit are governed by Rule 1.78. MPEP 1481.03 contains criteria for granting a certificate of correction correcting benefit in an issued patent. See the section titled "Correction of 35 U.S.C. 119 and 35 U.S.C. 120 Benefits." In view of the foregoing, the petition shows compliance with the criteria for correction of benefit under Rule 1.78.

B. THE APPLICANT HAS COMPLIED WITH THE CRITERIA FOR CLAIMING BENEFIT TO 09/666,068

1. THE APPLICANT HAS COMPLIED WITH THE REQUIREMENTS OF 37 C.F.R. 1.78

The following paragraphs in this subsection identify requirements in Rule 1.78 for claiming priority, and show compliance with those requirements.

37 CFR 1.78(a)(1) authorizes a claim to priority to prior filed applications only if the applications name at least one common inventor and disclose the claimed invention. The prior filed application is 09/666,068. The common inventor is Edward L. Tobinick, M.D. Facts 14-39.

37 CFR 1.78(a)(1)(i) and (ii) require the prior filed applications to be either international applications or applications entitled to a filing date. The prior filed applications is 09/666,068, which was entitled to and accorded a filing date. Exhibit 1, Facts 14 - 15.

37 CFR 1.78(a)(2)(i) requires a claim to priority to be present or amended to be present during the pendency of the application, unless the application was filed prior to November 29, 2000, and to state the relationship between the applications. This application is an application filed under 111(a) after November 29, 2000. Accordingly, the amendment submitted herewith provides the specific references and relationships to 09/476,643, which is a continuation-in-part of 09/275,070, which is a continuation-in-part of 09/256,388.

37 CFR 1.78(a)(2)(iii) requires the claim to priority be presented in an application data sheet or amendment to the first sentence of the specification following the title. The amendment submitted herewith provides the claim to priority to 09/666,068 in the first sentence of the specification following the title.

37 CFR 1.78(a)(3) authorizes an amendment claiming priority after the time periods

specified by 1.78(a)(2)(i) only if the late filing of the claim the priority was unintentionally delayed. The entire delay between the date the priority claim was due under paragraph 37 CFR 1.78 (a)(2)(ii) and the date of submission of the Petition was unintentional. Fact 40.

In view of the foregoing, this request should be granted.

Respectfully Submitted,

3-30-2010

/RobertHahl#33,893/

DATE

Robert W. Hahl, Ph.D.
Registration No. 33,893
Attorney of Record

PES, CROSS-NOTING, AND STATUS OF A CATTON

201.06(a)



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Approved for use through 6/30/98. OMB 0651-0033
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

REQUEST FOR FILING A PATENT APPLICATION UNDER 37 CFR 1.50

DOCKET NUMBER	ANTICIPATED CLASSIFICATION OF THIS APPLICATION		PRIOR APPLICATION EXAMINER	ART UNIT
	CLASS	SUBCLASS		
TOBINICK 3.0-009(CIP)(DIVII)			Examiner William R.A. Jarvis	1614

Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

This is a request for filing a continuation divisional application under 37 CFR 1.80, of pending prior Application Number 09/ .476,643, filed on 12/31/99, entitled INF. INHIBITORS, FOR THE TREATMENT OF NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS

1. Enclosed is a copy of the latest Inventor-signed prior application, including a copy of the oath or declaration showing the original signature or an indication it was signed. I hereby verify that the papers are a true copy of the latest signed prior application number 09/476,643, and further that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that each willful false statement may jeopardize the validity of the application or any patent issuing thereon.

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS (37 CFR 1.16(e))	17 - 20 =	--	x \$ --	\$ --
INDEPENDENT CLAIMS (37 CFR 1.16(e))	1 - 3 =	--	x \$ --	--	
MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(e))			- \$ --		
			BASIC FEE (37 CFR 1.16(d))	+ \$345.00	
			Total of above Calculations =		
Reduction by 60% for filing by small entity (Note 37 CFR 1.9, 1.27, 1.28).					
			TOTAL =	\$345.00	

- A verified statement to establish small entity status under 37 CFR 1.9 and 1.27
 is enclosed.
was filed in prior application number 09/476,643, and such status is still proper and desired
(37 CFR 1.28(a)).

The Commissioner is hereby authorized to charge any fees which may be required under 37 CFR 1.16 and 1.17, or credit any overpayment to Deposit Account No. . A duplicate copy of this sheet is enclosed.

A check in the amount of \$ 345 is enclosed.

Cancel in this application original claims 1-49 & 66-99 of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)

The inventor(s) of the invention being claimed in this application is (are):
Dr. Edward L. Tobinick

This application is being filed by less than all the inventors named in the prior application. In accordance with 37 CFR 1.80(b), the Commissioner is requested to delete the name(s) of the following person or persons who are not inventors of the invention being claimed in this application:

Amend the specification by inserting before the first line the sentence: "This application is a continuation
 division of application number 09/476,643, filed Dec. 31, 1999, (status, abandoned, pending, etc.)."

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.5 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**> PTO/2B/13 (11-08)

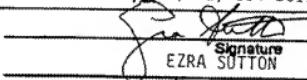
Approved for use through 5/20/09. OMB 0651-0092
 Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

(REQUEST FOR FILING A PATENT APPLICATION UNDER 37 CFR 1.60, PAGE 2)

9. New formal drawings are enclosed.
10. Priority of foreign application number _____ filed on _____ in _____
 is claimed under 35 U.S.C. 119(a) - (d).
 The certified copy has been filed in prior application number _____ / _____, filed _____.
11. A preliminary amendment is enclosed.
12. The prior application is assigned of record to _____
13. Also enclosed:

14. The power of attorney in the prior application is to: EZRA SUTTON, P.A.
 Plaza 9, 900 Route 9
 Woodbridge, New Jersey 07095.
- a. The power of attorney appears in the original papers in the prior application.
- b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.
- c. Address all future correspondence to: (May only be completed by applicant, or attorney or agent of record.)

<input type="checkbox"/> Customer Number	<input type="text"/>	→	<input type="text"/> Place Customer Number Bar Code Label here
<i>OR</i>		Type Customer Number here	
<input checked="" type="checkbox"/> Firm or Individual Name	EZRA SUTTON, P.A.		
Address	Plaza 9, 900 Route 9		
City	Woodbridge	State	New Jersey ZIP 07095
Country			
Telephone	(732) 634-3520		
Date	9-5-00		
Fax (732) 634-3511			


 Signature
 EZRA SUTTON

Typed or printed name

- Inventor(s)
 Assignee of complete interest. Certification under 37 CFR 3.73(b) is enclosed.
 Attorney or agent of record
 Filed under 37 CFR 1.34(a)
 Registration number if acting under 37 CFR 1.34(a) 25,770

[Page 2 of 2] <

5 **TNF INHIBITORS FOR THE TREATMENT OF
NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS**

RELATED APPLICATION

application is a divisional of 09/476,643, filed December 31, 1999, now U.S. Patent 6,177,077, which
This is a continuation-in-part of Application Serial No. 09/256,388, filed on
now abandoned
February 24, 1999.

(250)
4/15/01

10 **FIELD OF THE INVENTION**

The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression; demyelinating neurological disorders, including multiple sclerosis; neurodegenerative diseases, including Alzheimer's disease; muscular disorders; and disorders of the optic nerve and retina (hereinafter "Neurologic and Related TNF Disorders"). More particularly, the TNF antagonists, TNF inhibitors or TNF blockers, are used for the treatment, prevention or amelioration of these "Neurologic and Related TNF Disorders" by modulating the action of TNF in the human body. The use of these TNF antagonists or TNF blockers results in the amelioration of these disorders and diseases and represents a novel use for this class of drugs.

15 **BACKGROUND OF THE INVENTION**

Neurological disorders due to demyelinating disease (e.g. multiple sclerosis), immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. For example, in Alzheimer's disease the brain undergoes a serious form of neurodegeneration

2

Exhibit 2_Pages41-45 from IFW_08666068_666.

Applicant or Patentee: Edward L. TOBINICK, M.D.
 Serial or Patent No.: _____
 Filed or Issued: DEC 11 2000

Attorney's
Docket No.: _____

Title: TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL,
RETINAL AND MUSCULAR DISORDERS

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.2(f) AND 1.27(b) - INDEPENDENT INVENTOR**

As a below-named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled "TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS"

described in:

- the specification filed herewith
 Application Serial No. _____, filed _____
 Patent No. _____, issued _____

I have not assigned, granted, conveyed, or licensed and am under no obligation, under contract or law to assign, grant, convey, or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- no such person, concern, or organization
 persons, concerns, or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern, or organization having rights to the invention according to their status as small entities. (37 CFR 1.27)

FULL NAME _____
 ADDRESS _____
 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

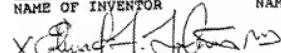
FULL NAME _____
 ADDRESS _____
 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

FULL NAME _____
 ADDRESS _____
 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Edward L. TOBINICK, M.D.

NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
	Signature of Inventor	Signature of Inventor
Signature of Inventor	Signature of Inventor	Signature of Inventor

December 29, 1999

Date

Date

Date

DECLARATION FOR PATENT APPLICATION

Docket No. TOBINICK
3.0-009(CIP)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL, the specification of which

RETINAL AND MUSCULAR DISORDERS
(check one) is attached hereto.

was filed on _____ as
Application Serial No. _____
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ezra Sutton, Reg. No. 25,770

Address all telephone calls to _____ at telephone no. (732) 634-3520
Address all correspondence to _____

EZRA SUTTON, P.A.
Plaza 9, 900 Route 9
Woodbridge, New Jersey 07095

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Edward L. TOBINICK, M.D. Date December 29, 1999
 Inventor's signature Edward L. TOBINICK, M.D. Date December 29, 1999
 Residence Los Angeles, California 90024-6903 Citizenship United States of America
 Post Office Address 100 UCLA Medical Plaza, Suite 205
Los Angeles, California 90024-6903

Full name of second joint inventor, if any _____ Date _____
 Second Inventor's signature _____ Citizenship _____
 Residence _____
 Post Office Address _____



TOBINICK 3.0-009 (CIP) (DIV I)

RECEIPT
RECEIVED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BY FAX - 1-703-308-7751

In re patent application of:
EDWARD L. TOBINICK, M.D.

Serial No. 09/666,068 : Group Art Unit 1614

Filed: September 19, 2000 : Examiner

For: TNF INHIBITORS FOR THE
TREATMENT OF NEUROLOGICAL,
RETINAL AND MUSCULAR DISORDERS December 6, 2000Assistant Commissioner for Patents
Washington, D.C. 20231CORRECTION OF FILING RECEIPT

Sir:

Please issue a corrected filing receipt, and correct the
following data:

THIS APPLICATION IS A DIV OF 09/476,643, DATED 12/31/1999,
WHICH IS A CIP OF 09/256,388, DATED 2/24/1999, ABANDONED.

See the enclosed filing receipt.

Respectfully submitted,

EZRA SUTTON, P.A.

Ezra Sutton

EZRA SUTTON
Reg. No. 25,770

Plaza 9, 900 Route 9
Woodbridge, New Jersey 07095
(732) 634-3520
ES/jmt

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JAN 12 2001
OPIPE/JCVS



UNITED STATES PATENT AND TRADEMARK OFFICE

FILING DATE | GRP/ART UNIT | FIL/FB REC'D | ATTY/DOCKET NO | DRAWINGS | TOT CLAIMS | IND CLAIMS

09/19/2000 | 1614 | 345 | TOBINICK | 3/0-009 | 21 | 2

Ezra Sutton PA
Plaza 9 900 Route 9
Woodbridge, NJ 07095



Date Mailed: 11/15/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Edward L. Tobinick, Los Angeles, CA :

Continuing Data as Claimed by Applicant

THIS APPLICATION IS A CIP OF 09/256,388 02/24/1999 ABN

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FEB 13 2001
TECH CENTER 1600/2900

Foreign Applications

If Required, Foreign Filing License Granted 11/15/2000

** SMALL ENTITY **

Title

TNF inhibitors for the treatment of neurological, retinal and muscular disorders

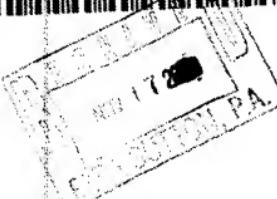
Preliminary Class

514

Data entry by : HINES, BRRNDA

Team : OIPE

Date: 11/15/2000



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FEB 13 2001

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
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Bib Data Sheet

SERIAL NUMBER 09/666,068	FILING DATE 12/11/2000 RULE -	CLASS 514	GROUP ART UNIT 1614	ATTORNEY DOCKET NO. TOBINICK3.0-009 (CIP)(DIV)
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APPLICANTS

Edward L. Tobinick, Los Angeles, CA :

** CONTINUING DATA *****

THIS APPLICATION IS A DIV OF 09/476,643 12/31/1999 PAT 6,177,077
 WHICH IS A CIP OF 09/256,388 02/24/1999 ABN

** FOREIGN APPLICATIONS *****

IF REQUIRED, FOREIGN FILING LICENSE
GRANTED ** 11/02/2000

** SMALL ENTITY **

Foreign Priority claimed	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no		
35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance		
Verified and Acknowledged	Examiner's Signature Initials		
STATE OR COUNTRY CA	SHEETS DRAWING -	TOTAL CLAIMS 16	INDEPENDENT CLAIMS 1

ADDRESS

EZRA SUTTON, P.A.
Plaza 9, 900 Route 9
Woodbridge , NJ 07095

TITLE

TNF inhibitors for the treatment of neurological, retinal and muscular disorders

FILING FEE RECEIVED 410	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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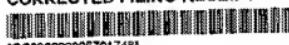
UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
 UNITED STATES PATENT AND TRADEMARK OFFICE
 WASHINGTON, D.C. 20591
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP/ART UNIT	FIL/FEES REC'D	ATTY/DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/866,068	12/11/2000	1614	410	TOBINICK3.0-009(CIP)(DIV I)		16	1

CORRECTED FILING RECEIPT

EZRA SUTTON, P.A.
 Plaza 9, 900 Route 9
 Woodbridge, NJ 07095



0000000005701748

Date Mailed: 01/24/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Edward L. Tobinick, Los Angeles, CA :

Continuing Data as Claimed by Applicant

THIS APPLICATION IS A DIV OF 09/476,643 12/31/1999 PAT 6,177,077
 WHICH IS A CIP OF 09/256,388 02/24/1999 ABN

Foreign Applications

If Required, Foreign Filing License Granted 11/02/2000

** SMALL ENTITY **

Title

TNF inhibitors for the treatment of neurological, retinal and muscular disorders

Preliminary Class

514

Data entry by : BURSE, JANICE

Team : OIPE

Date: 01/24/2001





UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
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 WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/666,068	12/11/2000	1614	410	TOBINICK3.0-009(CIP)(DIV)		16	1

CONFIRMATION NO. 6420

FILING RECEIPT



OC000000005781231

Date Mailed: 02/22/2001

EZRA SUTTON, P.A.
 Plaza 9, 900 Route 9
 Woodbridge, NJ 07095

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Edward L. Tobinick, Los Angeles, CA;

Continuing Data as Claimed by Applicant

THIS APPLICATION IS A DIV OF 09/476,843 12/31/1999 PAT 6,177,077
 WHICH IS A CIP OF 09/256,388 02/24/1999 ABN

Foreign Applications

If Required, Foreign Filing License Granted 11/02/2000

Projected Publication Date: 05/31/2001

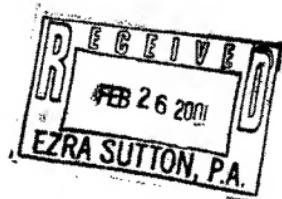
Non-Publication Request: No

Early Publication Request: No

" SMALL ENTITY "

Title

TNF inhibitors for the treatment of neurological, retinal and muscular disorders



TOBINICK 3.0-009 (CIP) (DIV I)
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Sectoy
#3

In re patent application of :
EDWARD L. TOBINICK, M.D.
Serial No. 09/666,068 : Group Art Unit 1614
Filed: September 19, 2000 : Examiner
For: TNF INHIBITORS FOR THE : December 6, 2000
TREATMENT OF NEUROLOGICAL,
RETINAL AND MUSCULAR DISORDERS

Assistant Commissioner for Patents
Washington, D.C. 20231

Attention: Customer Service Center
Initial Patent Examination Division

RESPONSE

Sir:

This is in response to the "Notice to File Missing Parts of Nonprovisional Application," dated November 2, 2000.

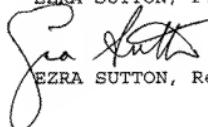
Enclosed for filing are the following:

1. Page 54, which was missing from the application;
2. A copy of the Declaration from the parent application (U.S. Serial No. 09/476,643);
3. A copy of the Verified Statement for a Small Entity from the parent application (U.S. Serial No. 09/476,643);
4. The surcharge fee of \$65 for a small entity; and
5. A copy of the Notice to File Missing Parts of Nonprovisional Application.

It is requested that this application be given a new filing date upon receipt of this Response.

Respectfully submitted,

EZRA SUTTON, P.A.



EZRA SUTTON, Reg. No. 25,770

Plaza 9, 900 Route 9
Woodbridge, New Jersey 07095

(732) 634-3520

ES/jmt

Enclosures

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST-CLASS MAIL IN AN ENVELOPE ADDRESSED TO:
ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231 ON

Date December 6, 2000
By Judith M. Train

US 6,379,666 B1

1

2

**TNF INHIBITORS FOR THE TREATMENT
OF NEUROLOGICAL, RETINAL AND
MUSCULAR DISORDERS**

RELATED APPLICATION

This application is a divisional of Ser. No. 09/476,643, filed Dec. 31, 1999, now U.S. Pat. No. 6,177,077, which is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned.

FIELD OF THE INVENTION

The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression/demyelinating neurological disorders, including multiple sclerosis; neurodegenerative diseases, including Alzheimer's disease; muscular disorders; and disorders of the optic nerve and retina (hereinafter "Neurologic and Related TNF Disorders"). More particularly, the TNF antagonists, TNF inhibitors or TNF-blockers, are used for the treatment, prevention or amelioration of these "Neurologic and Related TNF Disorders" by modulating the action of TNF in the human body. The use of these TNF antagonists or TNF blockers results in the amelioration of these disorders and diseases and represents a novel use for this class of drugs.

BACKGROUND OF THE INVENTION

Neurological disorders due to demyelinating disease (e.g. multiple sclerosis), immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. For example, in Alzheimer's disease the brain undergoes a serious form of neurodegeneration of unknown etiology. Common to all of these disorders is the fact that they can cause permanent neurological damage, that damage can occur rapidly and be irreversible, and that current treatment of these conditions is unsatisfactory, often requiring surgery and/or the use of pharmacologic agents, which are often not completely successful.

These neurological conditions include acute spinal cord trauma, spinal cord compression, spinal cord hemiatoma, cord confusion (these cases are usually traumatic, such as motorcycle accidents or sports injuries); nerve compression, the most common condition being a herniated disc causing sciatic nerve compression, neuropathy, and pain; but also including cervical disc herniation, causing nerve compression in the neck; acute or chronic spinal cord compression from cancer (this is usually due to metastases to the spine, such as from prostate, breast or lung cancer); autoimmune disease of the nervous system; and demyelinating diseases, the most common condition being multiple sclerosis.

Steroid drugs such as cortisone that are used to treat many of the aforementioned neurological problems and conditions are particularly hazardous because they are used either at high dosage, with a corresponding increasing risk of side effects, or because they are used chronically, also increasing their adverse effects. Lastly, steroids are only partially effective or completely ineffective.

Tumor necrosis factor (TNF), a naturally occurring cytokine, plays a central role in the inflammatory response and in immune injury. TNF is formed by the cleavage of a precursor transmembrane protein, forming soluble molecules which aggregate to form trimolecular complexes. These complexes then bind to receptors found on a variety

of cells. Binding produces an array of pro-inflammatory effects, including release of other pro-inflammatory cytokines, including interleukin (IL)-6, IL-8, and IL-1; release of matrix metalloproteases; and up regulation of the expression of endothelial adhesion molecules, further amplifying the inflammatory and immune cascade by attracting leukocytes into extravascular tissues. TNF is now well established as key in the pathogenesis of rheumatoid arthritis (RA) and Crohn's Disease.

Specific inhibitors of TNF, only recently commercially available, now provide the possibility of therapeutic intervention in TNF mediated diseases. Dramatic therapeutic success has already been demonstrated with infliximab, a chimeric anti-TNF monoclonal antibody (mAb), in treating Crohn's Disease and RA, and with etanercept, a recombinant fusion protein consisting of two soluble TNF receptors joined by the Fc fragment of a human IgG1 molecule, in treating RA and Psoriatic Arthritis. Other specific anti-TNF agents are under development, including D2E7 (a human anti-TNF mAb), CDP 571 (a chimeric, but 95% humanized, anti-TNF mAb), and a pegylated soluble TNF type I receptor. Additionally, thalidomide has been demonstrated to be a potent anti-TNF agent. Further, anti-TNF therapies may include gene therapy and the development of selective inhibitors of the TNF-alpha converting enzyme.

As with other organ systems, TNF has been shown to have a key role in the central nervous system. There is a need for TNF inhibitors that will open a new realm of therapeutic possibilities for a wide variety of neurological and related disorders. These disorders are diverse and include inflammatory and autoimmune disorders of the nervous system, including multiple sclerosis, Guillain Barre syndrome, and myasthenia gravis; degenerative disorders of the nervous system, including Alzheimer's disease, Parkinson's disease and Huntington's disease; disorders of related systems of the retina and of muscle, including optic neuritis, macular degeneration, diabetic retinopathy, dermatomyositis, amyotrophic lateral sclerosis and muscular dystrophy; and injuries to the nervous system, including traumatic brain injury, acute spinal cord injury, and stroke.

The limited ability of the body to effect repair after injury to the nervous system, the devastating nature of these diseases and the lack of effective therapy all highlight the importance of early therapy aimed at preventing or limiting neuronal destruction. Anti-TNF therapies are ideally suited to this task because they have been demonstrated to dramatically limit inflammation by interrupting the inflammatory cascade at a fundamental level.

There remains a need for a new pharmacologic treatment of these aforementioned physiological problems of the nervous system associated with autoimmune disease, demyelinating diseases, neurodegenerative diseases, trauma, injuries and compression with the pharmacological use of TNF antagonists or TNF blockers, which are greatly beneficial for the large number of patients whom these conditions affect. Drugs which are powerful TNF blockers are etanercept, infliximab, pegylated soluble TNF Receptor Type 1 (PEO3 TNF-R1), other agents containing soluble TNF receptors, CDP571 (a humanized monoclonal anti-TNF-alpha antibodies), thalidomide, phosphodiesterase 4 (IV) inhibitor thalidomide analogues and other phosphodiesterase IV inhibitors. Etanercept or infliximab may be used for the immediate, short term and long term (acute and chronic) blockade of TNF in order to minimize neurological damage mediated by TNF dependent processes occurring in the aforementioned neurological disorders. The use of these TNF antagonists or TNF-blockers would result in the amelioration of these physiological neurological problems.

DECLARATION FOR PATENT APPLICATION

Docket No. TOBINICK

3.0-009(CIP)

As a below named inventor, I hereby declare that:

Exhibit 8, Pages 170-173 from IPW_59476543_077.pdf

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL**, the specification of which

RETINAL AND MUSCULAR DISORDERS(check one) is attached hereto.

was filed on _____
 Application Serial No. _____
 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
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			Yes	No

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(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ezra Sutton, Reg. No. 25,770

Address all telephone calls to _____ at telephone no. (732) 634-3520
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EZRA SUTTON, P.A.
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 Woodbridge, New Jersey 07095

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Full name of sole or first inventor Edward L. TOBINICK, M.D. Date December 29, 1999
 Inventor's signature Edward L. TOBINICK, M.D. Date December 29, 1999
 Residence Los Angeles, California 90024-6903 Citizenship United States of America
 Post Office Address 100 UCLA Medical Plaza, Suite 205
Los Angeles, California 90024-6903

Full name of second joint inventor, if any _____

Second Inventor's signature _____ Date _____

Residence _____ Citizenship _____

Post Office Address _____

Applicant or Patentee: Edward L. TOBINICK, M.D. Attorney's
 Serial or Patent No.: _____ Docket No.: _____
 Filed or Issued:

Title: TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL,
 RETINAL AND MUSCULAR DISORDERS

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
 STATUS (37 CFR 1.2(f) AND 1.27(b) - INDEPENDENT INVENTOR**

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described in:

the specification filed herewith
 Application Serial No. _____, filed _____.
 Patent No. _____, issued _____.

I have not assigned, granted, conveyed, or licensed and am under no obligation, under contract or law to assign, grant, convey, or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

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FULL NAME _____
 ADDRESS _____
 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

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 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Edward L. TOBINICK, M.D.

NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
------------------	------------------	------------------

<u>X Edward L. TOBINICK</u>	<u>Signature of Inventor</u>	<u>Signature of Inventor</u>
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<u>Signature of Inventor</u>	<u>Signature of Inventor</u>	<u>Signature of Inventor</u>
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December 29, 1999

Date	Date	Date
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SERIAL NUMBER 09/476,643	FILING DATE 12/31/99	CLASS <i>514</i>	GROUP ART UNIT <i>1614</i>	ATTORNEY DOCKET NO. TOBINICK.3.0
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APPLICANT
EDWARD L. TOBINICK, LOS ANGELES, CA.

*****CONTINUING DOMESTIC DATA*****

VERIFIED THIS APPLN IS A CIP OF 09/275,070 03/23/99 PAT 6015,557
ASJ WHICH IS A CIP OF 09/256,388 02/24/99 ABN

*****371 (NAT'L STAGE) DATA*****

VERIFIED
ASJ

NONE

*****FOREIGN APPLICATIONS*****

VERIFIED
ASJ

NONE

IF REQUIRED, FOREIGN FILING LICENSE GRANTED 02/07/00 ** SMALL ENTITY **

Foreign Priority claimed 35 USC 119 (a-d) conditions met	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>ASJ</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Met after Allowance	STATE OR COUNTRY CA	SHEETS DRAWING 0	TOTAL CLAIMS 99	INDEPENDENT CLAIMS 8
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ADDRESS EZRAS SUTTON PA PLAZA 9 900 ROUTE 9 WOODBRIDGE NJ 07095
--

TITLE TNT INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL RETINAL AND MUSCULAR DISORDERS	
--	--

FILING FEE RECEIVED \$501	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT NO. _____ for the following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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12/31/99
ES/BS U.S. PTO

01-65-00

Exhibit 6_Pages112-114from1FW_99476643_077.pdf

12/31/99
ES/BS U.S. PTO
09/4/6643
12/31/99

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EZRA SUTTON, P.A.

A PROFESSIONAL CORPORATION

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900 ROUTE 9

WOODBRIDGE, NEW JERSEY 07095

EZRA SUTTON*
OF COUNSEL
ROBERT A. GREEN
DAVID L. DAVIS

*MEMBER OF N.J. AND N.Y. BARS

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CABLE: TRADEPAT
FAX: (732) 634-3511

December 31, 1999

BY EXPRESS MAIL

Assistant Commissioner for Patents
Washington, D.C. 20231

File No.: TOBINICK 3.0-009 (CIP)

Inventor(s): Edward L. TOBINICK

Title: TNFIINHIBITORS FOR THE TREATMENT OF NEUROLOGICAL,
RETINAL AND MUSCULAR DISORDERS

Assignee: None

Dear Sir:

Enclosed herewith are the following documents in the above-
identified application for a Letters Patent of the United States:

2 Pages of Abstract Verified Statement for Small Entity Status
29 Pages of Specification Declaration, Power of Attorney & Petition
29 Number of Claims Two (2) return-addressed postcards
Sheets of Drawings (PLEASE PROVIDE FILING DATE & SERIAL NUMBER)
 Assignment for Recording (attached to copy of this letter)
 PETITION TO MAKE SPECIAL; LIST OF PRIOR ART CITED BY APPLICANT; 5 PRIOR
5 PRIOR ART PATENTS; FEE OF \$130
Check No. 3847 in the amount of \$510, calculated as follows:

Basic Fee (**Large Business \$760.00) (*Small Business \$380.00) \$ 380
Additional Fees:

Total number of claims 99

Total number of claims in excess of 20, 79 times (**\$18)(*\$9) 711

Number of independent claims 8

Number of independent claims minus 3, 5 times (**\$78)(*\$39) 195

Assignment recording fee (\$40)

Multiple dependent claims (**\$260) (*\$130) \$1,286

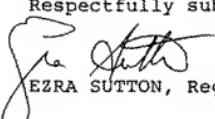
PETITION TO MAKE SPECIAL 130

TOTAL filing and assignment recording fees \$1,416

CONVENTION DATE _____ for _____ Appln. No. _____
is claimed.

Priority Document: Enclosed Will follow

Respectfully submitted,


EZRA SUTTON, Reg No. 25,770

ES/jmt
Enclosures

5
**TNF INHIBITORS FOR THE TREATMENT OF
NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS**

RELATED APPLICATION

This is a continuation-in-part of Application Serial No. 09/256,388, filed on
February 24, 1999.

10
FIELD OF THE INVENTION

The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression; demyelinating neurological disorders, including multiple sclerosis; neurodegenerative diseases, including Alzheimer's disease; muscular disorders; and disorders of the optic nerve and retina (hereinafter "Neurologic and Related TNF Disorders"). More particularly, the TNF antagonists, TNF inhibitors or TNF blockers, are used for the treatment, prevention or amelioration of these "Neurologic and Related TNF Disorders" by modulating the action of TNF in the human body. The use of these TNF antagonists or TNF blockers results in the amelioration of these disorders and diseases and represents a novel use for this class of drugs.

15
20

BACKGROUND OF THE INVENTION

Neurological disorders due to demyelinating disease (e.g. multiple sclerosis), immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. For example, in Alzheimer's disease the brain undergoes a serious form of neurodegeneration



Bib Data Sheet

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark OfficeAddress: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231**FILE COPY**

SERIAL NUMBER 09/476,643	FILING DATE 12/31/1999 RULE	CLASS 514	GROUP ART UNIT 1614	ATTORNEY DOCKET NO. TOBINICK.3.0
-----------------------------	-----------------------------------	--------------	------------------------	-------------------------------------

APPLICANTS

EDWARD L. TOBINICK, LOS ANGELES, CA ;

** CONTINUING DATA ***** WHICH THIS APPLICATION IS A CIP OF 09/256,388 02/24/1999 ABN

** FOREIGN APPLICATIONS *****

IF REQUIRED, FOREIGN FILING LICENCE GRANTED

SMALL ENTITY **

** 02/07/2000

PAT #
RECEIVED 9/27/00
MAR 27 2001
TECH CENTER 1600/2800

Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance	STATE OR COUNTRY CA	SHEETS DRAWING --	TOTAL CLAIMS 99	INDEPENDENT CLAIMS 8
--	--	------------------------	----------------------	--------------------	-------------------------

ADDRESS

EZRA SUTTON PA
PLAZA 9 900 ROUTE 9
WOODBRIDGE, NJ 07095

TITLE

TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS

FILING FEE RECEIVED 510	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input checked="" type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other <input type="checkbox"/> Credit
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12/31/99

01-05-00

09/476643
12/31/99

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EZRA SUTTON, P. A.

A PROFESSIONAL CORPORATION

PLAZA 9

900 ROUTE 9

EZRA SUTTON*
OF COUNSEL
ROBERT A. GREEN
DAVID L. DAVIS

WOODBRIDGE, NEW JERSEY 07043

December 31, 1999

MEMBER OF NJ. AND NY. SALES

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CABLE: TRADEPAT
FAX: (732) 634-3511

Assistant Commissioner for Patents
Washington, D.C. 20231

File No.: TORINICK 3.0-009 (GIR)

Inventor(s): Edward L. TOBINICK

INVENTOR(S): EDWARD B. TUBINICK
Title: TNF₁ INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL,
RETINAL, AND MUSCULAR DISORDERS

Assignee: None

Dear Sir:

Enclosed herewith are the following documents in the above-identified application for a Letters Patent of the United States:

<input checked="" type="checkbox"/> Pages of Abstract	<input checked="" type="checkbox"/> Verified Statement for Small Entity Status
<input checked="" type="checkbox"/> Pages of Specification	Declaration, Power of Attorney & Petition
<input checked="" type="checkbox"/> Number of Claims	Two (2) return-addressed postcards
<input checked="" type="checkbox"/> Sheets of Drawings	(PLEASE PROVIDE FILING DATE & SERIAL NUMBER)
<input checked="" type="checkbox"/> Assignment for Recording (attached to copy of this letter)	
<input checked="" type="checkbox"/> PETITION TO MAKE SPECIAL; LIST OF PRIOR ART CITED BY APPLICANT;	
<input checked="" type="checkbox"/> 5 PRIOR ART PATENTS; FEE OF \$130	
Check No. <u>3884</u> in the amount of <u>\$510</u> $(\$380 + \$130)$, calculated as follows:	
Basic Fee (**Large Business \$760.00) (*Small Business \$380.00) <u>\$ 380</u>	
Additional Fees:	
Total number of claims <u>99</u>	
Total number of claims in excess of 20, <u>79</u> times (**\$18)(*\$9)	<u>711</u>
Number of independent claims <u>8</u>	
Number of independent claims minus 3, <u>5</u> times (**\$78)(*\$39)	<u>195</u>
Assignment recording fee (\$40)	
Multiple dependent claims (**\$260) (*\$130)	<u>\$1,266</u>
PETITION TO MAKE SPECIAL <u>130</u>	
TOTAL filing and assignment recording fees <u>\$1,416</u>	

CONVENTION DATE _____ for _____ Appln. No. _____
is claimed.

Priority Document: Enclosed will follow.

Respectfully submitted,

EZRA SUTTON Reg No 25 330

ES/jmt
Enclosures

Applicant or Patentee: Edward L. TOBINICK, M.D. Attorney's
 Serial or No.: _____ Docket No.: _____
 Filed or Issued:
 Title: TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL,
 RETINAL AND MUSCULAR DISORDERS
VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
 STATUS (37 CFR 1.2(f) AND 1.27(b) - INDEPENDENT INVENTOR

As a below-named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark office with regard to the invention entitled TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS

described in:
 the specification filed herewith
 Application Serial No. _____, filed _____
 Patent No. _____, issued _____

I have not assigned, granted, conveyed, or licensed and am under no obligation, under contract or law to assign, grant, convey, or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, OR to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

no such person, concern, or organization
 persons, concerns, or organizations listed below

*NOTE: Separate verified statements are required from each named person, concern, or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME _____
 ADDRESS _____
 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

FULL NAME _____
 ADDRESS _____
 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

FULL NAME _____
 ADDRESS _____
 INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Edward L. TOBINICK, M.D.

NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
	Signature of Inventor	Signature of Inventor

December 29, 1999

Date	Date	Date
------	------	------

5 **TNF INHIBITORS FOR THE TREATMENT OF
NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS**

RELATED APPLICATION

This is a continuation-in-part of Application Serial No. 09/256,388, filed on February 24, 1999.

10 FIELD OF THE INVENTION

The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression; demyelinating neurological disorders, including multiple sclerosis; neurodegenerative diseases, including Alzheimer's disease; muscular disorders; and disorders of the optic nerve and retina (hereinafter "Neurologic and Related TNF Disorders"). More particularly, the TNF antagonists, TNF inhibitors or TNF blockers, are used for the treatment, prevention or amelioration of these "Neurologic and Related TNF Disorders" by modulating the action of TNF in the human body. The use of these TNF antagonists or TNF blockers results in the amelioration of these disorders and diseases and represents a novel use for this class of drugs.

15 BACKGROUND OF THE INVENTION

Neurological disorders due to demyelinating disease (e.g. multiple sclerosis), immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. For example, in Alzheimer's disease the brain undergoes a serious form of neurodegeneration

Exhibit 6_Pages23-24fromIFN_09476643_077.pdf

1490

MANUAL OF PATENT EXAMINING PROCEDURE

OFFICE

PTO/SB/02 (10-95)
Approved for use through 10/31/2000
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

TERMINAL DISCLAIMER TO OBLVIAE A DOUBLE PATENTING REJECTION OVER A PRIOR PATENT		Docket Number (Optional) TOBINICK 3 (CIP)
In re Application of:	EDWARD L. TOBINICK	
Application No.	09/476,643	
Filed:	December 31, 1999	
For:	TNF INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL RETINAL AND MUSCULAR DISORDERS	
<p>The owner, EDWARD L. TOBINICK, of 0.00 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. 154 to 156 and 173, as presently shortened by any terminal disclaimer, of prior Patent No. ..., 6,015,557.... The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p>		
<p>In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 to 156 and 173 of the prior patent, as presently shortened by any terminal disclaimer. In the event that it later expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims cancelled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.</p>		
<p>Check either box 1 or 2 below, if appropriate.</p>		
<p>1. <input type="checkbox"/> For submissions on behalf of an organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the organization.</p>		
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>		
<p>2. <input checked="" type="checkbox"/> The undersigned is an attorney of record.</p>		
		
<p><u>July 20, 2000</u> Signature Date</p>		
<p>EZRA SUTTON Typed or printed name</p>		
<p><input checked="" type="checkbox"/> Terminal disclaimer fee under 37 CFR 1.20(d) included.</p>		

*Certification under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/065 may be used for making this certification. See MPEP § 326.

Board Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled INFHIBITORS FOR THE TREATMENT OF NEUROLOGICAL, RETINAL AND MUSCULAR DISORDERS.

(check one) is attached hereto.

It was filed on _____

Application Serial No. _____

and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

09/256,388	February 24, 1999	Abandoned
(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)
09/276,070	March 23, 1999	U.S. Patent No. 6,015,557

(Application Serial No.) (Filing Date) (Status—patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ezra Sutton, Reg. No. 25,770

Address all telephone calls to _____ at telephone no. (732) 634-3520
Address all correspondence to _____

EZRA SUTTON, P.A.
Plaza 9, 900 Route 9
Woodbridge, New Jersey 07095

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Edward A. Tobinick, M.D.
Inventor's signature  Date July 19, 2000

Residence Los Angeles, California Citizenship United States of America

Post Office Address 100 UCLA Medical Plaza, Suite 205
Los Angeles, California 90024-6903

Full name of second joint inventor, if any _____

Second Inventor's signature _____ Date _____

Residence _____ Citizenship _____

Post Office Address _____

Please supply similar information and signatures for third and subsequent joint inventors

Exhibit 9_Pages18-18fromIPW_09476643_077.pdf

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EZRA SUTTON, P. A. FAX RECEIVED

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900 ROUTE 9

WOODBRIDGE, NEW JERSEY 07095

JUL 24 2000

GROUP 1600PATENTS
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COPYRIGHTS(732) 634-3520
FAX: (732) 634-3511EZRA SUTTON
JOSEPH SUTTON
OF COUNSEL
ROBERT A. GREEN
DAVID L. DAVIS

*MEMBER OF N.J. AND N.Y. BARS

Date 7/20/00**OFFICIAL**

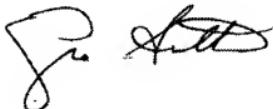
TO: EXR JARVIS

FAX NO. 703-308-4556

FROM: EZRA SUTTON

FAX NO. 1-732-634-3511

PHONE: 1-732-634-3520

TOTAL NUMBER
OF PAGES:8*Amendment Enclosed.*

TOBINICK 3.0-009 (CIP)

OFFICI
6/2
9/20/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BY FAX AND MAIL

In re patent application of:
EDWARD L. TOBINICK

Serial No.: 09/476,643

Group Art Unit 1614

Filed: December 31, 1999

Examiner William R. A. Jarvis

For: TNF INHIBITORS FOR THE
TREATMENT OF NEUROLOGICAL,
RETINAL, AND MUSCULAR
DISORDERS

July 20, 2000

Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT

Sir:

This is in response to the first Office Action.

IN THE SPECIFICATION:

Please amend the first sentence of the specification as follows:

application 09/275,070
-- This is a continuation-in-part of Application Serial No. 09/256,388, filed on 09/24/00.
March 23, 1999 U.S. Patent 6,015,557, which is a continuation-in-part of 09/275,070, now U.S. Patent
February 24, 1999, now abandoned, and Application Serial No. 09/256,388, filed February 24, 1999,
now abandoned No. 6,015,557. --

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST-CLASS MAIL IN AN ENVELOPE ADDRESSED TO:
ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231 ON

DATE 7/20/00
BY Sam Sutton

38 07/21/00 FRI 15:19 [TX/RX NO 6334] #002

US 6,177,077 B1

1

**TNF INHIBITORS FOR THE TREATMENT
OF NEUROLOGICAL DISORDERS****RELATED APPLICATION**

This application is a continuation-in-part of application Ser. No. 09/275,090, filed on Mar. 23, 1999, now U.S. Pat. No. 6,015,557, which is a continuation-in-part of application Ser. No. 09/256,388, filed Feb. 24, 1999 now abandoned.

FIELD OF THE INVENTION

The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression; demyelinating neurological disorders, including multiple sclerosis; neurodegenerative diseases, including Alzheimer's disease; muscular disorders; and disorders of the optic nerve and retina (hereinafter "Neurologic and Related TNF Disorders"). More particularly, the TNF antagonists, TNF inhibitors or TNF blockers, are used for the treatment, prevention or amelioration of these "Neurologic and Related TNF Disorders" by modulating the action of TNF in the human body. The use of these TNF antagonists or TNF blockers results in the amelioration of these disorders and diseases and represents a novel use for this class of drugs.

BACKGROUND OF THE INVENTION

Neurological disorders due to demyelinating disease (e.g., multiple sclerosis), immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. For example, in Alzheimer's disease the brain undergoes a serious form of neurodegeneration of unknown etiology. Common to all of these disorders is the fact that they can cause permanent neurological damage, that damage can occur rapidly and be irreversible, and that current treatment of these conditions is unsatisfactory, often requiring surgery and/or the use of pharmacologic agents, which are often not completely successful.

These neurological conditions include acute spinal cord trauma, spinal cord compression, spinal cord hematoma, cord contusion (these cases are usually traumatic, such as motorcycle accidents or sports injuries); nerve compression, the most common condition being a herniated disc causing sciatic nerve compression, neuropathy, and pain; but also including cervical disc herniation, causing nerve compression in the neck; acute or chronic spinal cord compression from cancer (this is usually due to metastases to the spine, such as from prostate, breast or lung cancer); autoimmune disease of the nervous system; and demyelinating diseases, the most common condition being multiple sclerosis.

Steroid drugs such as cortisone that are used to treat many of the aforementioned neurological problems and conditions are particularly hazardous because they are used either at high dosage, with a corresponding increasing risk of side effects, or because they are used chronically, also increasing their adverse effects. Lastly, steroids are only partially effective or completely ineffective.

Tumor necrosis factor (TNF), a naturally occurring cytokine, plays a central role in the inflammatory response and in immune injury. TNF is formed by the cleavage of a precursor transmembrane protein, forming soluble molecules which aggregate to form trimolecular complexes. These complexes then bind to receptors found on a variety of cells. Binding produces an array of pro-inflammatory

effects, including release of other pro-inflammatory cytokines, including interleukin (IL)-6, IL-8, and IL-1; release of matrix metalloproteinases; and up regulation of the expression of endothelial adhesion molecules, further amplifying the inflammatory and immune cascade by attracting leukocytes into extravascular tissues. TNF is well established as key in the pathogenesis of rheumatoid arthritis (RA) and Crohn's Disease.

Specific inhibitors of TNF, only recently commercially available, now provide the possibility of therapeutic intervention in TNF mediated diseases. Dramatic therapeutic success has already been demonstrated with infliximab, a chimeric anti-TNF monoclonal antibody (mAb), in treating Crohn's Disease and RA; and with etanercept, a recombinant fusion protein consisting of two soluble TNF receptors joined by the Fc fragment of a human IgG1 molecule, in treating RA and Psoriatic Arthritis. Other specific anti-TNF agents are under development, including D2E7 (a human anti-TNF mAb), CDP 571 (a chimeric, but 95% humanized, anti-TNF mAb), and a pegylated soluble TNF type I receptor. Additionally, thalidomide has been demonstrated to be a potent anti-TNF agent. Further, anti-TNF therapies may include gene therapy and the development of selective inhibitors of the TNF-alpha converting enzyme.

As with other organ systems, TNF has been shown to have a key role in the central nervous system. There is a need for TNF inhibitors that will open a new realm of therapeutic possibilities for a wide variety of neurological and related disorders. These disorders are diverse and include inflammatory and autoimmune disorders of the nervous system, including multiple sclerosis, Guillain Barre syndrome, and myasthenia gravis; degenerative disorders of the nervous system, including Alzheimer's disease, Parkinson's disease and Huntington's disease; disorders of related systems of the retina and of muscle, including optic neuritis, macular degeneration, diabetic retinopathy, dermatomyositis, amyotrophic lateral sclerosis, and muscular dystrophy; and injuries to the nervous system, including traumatic brain injury, acute spinal cord injury, and stroke.

The limited ability of the body to effect repair after injury to the nervous system, the devastating nature of these diseases and the lack of effective therapy all highlight the importance of early therapy aimed at preventing or limiting neuronal destruction. Anti-TNF therapies are ideally suited to this task because they have been demonstrated to dramatically limit inflammation by interrupting the inflammatory cascade at a fundamental level.

There remains a need for a new pharmacological treatment of these aforementioned physiological problems of the nervous system associated with autoimmune disease, demyelinating diseases, neurodegenerative diseases, trauma, injuries and compression with the pharmacological use of TNF antagonists or TNF blockers, which are greatly beneficial for the large number of patients whom these conditions affect. Drugs which are powerful TNF blockers are etanercept, infliximab, pegylated soluble TNF Receptor Type I (PEGS TNF-R1), other agents containing soluble TNF receptors, CDP571 (a humanized monoclonal anti-TNF-alpha antibodies), thalidomide, phosphodiesterase 4 (IV) inhibitor thalidomide analogues and other phosphodiesterase IV inhibitors. Etanercept or infliximab may be used for the immediate, short term and long term (acute and chronic) blockade of TNF in order to minimize neurological damage mediated by TNF dependent processes occurring in the aforementioned neurological disorders. The use of these TNF antagonists or TNF blockers would result in the amelioration of these physiological neurological problems.

2

03/23/99
SUTTON, P.A.
PRO

A

LAW OFFICES

EZRA SUTTON, P. A.

A PROFESSIONAL CORPORATION

PLAZA 9

900 ROUTE 9

EZRA SUTTON*

OF COUNSEL

ROBERT A. GREEN

DAVID L. DAVIS

WOODBRIDGE, NEW JERSEY 07095

PATENTS

TRADEMARKS

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March 23, 1999

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BY EXPRESS MAIL

Assistant Commissioner for Patents
Washington, D.C. 20231

JC549 U.S. PTO
09/27/99
03/23/99

File No.: TOBINICK 3.0-007 (CIP)
 Inventor(s): Dr. Edward L. Tobinick
 Title: TUMOR NECROSIS FACTOR ANTAGONISTS FOR THE
 TREATMENT OF NEUROLOGICAL DISORDERS

Assignee: None

Dear Sir:

Enclosed herewith are the following documents in the above-
 identified application for a Letters Patent of the United States:

<u>1</u> Pages of Abstract	<u>X</u> Verified Statement for Small Entity Status
<u>21</u> Pages of Specification	Declaration, Power of Attorney & Petition
<u>47</u> Number of Claims	<u>TWO</u> (2) return-addressed postcards
<u>none</u> Sheets of Drawings	(PLEASE PROVIDE FILING DATE & SERIAL NUMBER)
<u>none</u> Assignment for Recording (attached to copy of this letter)	
<u>A PETITION TO MAKE SPECIAL; LIST OF PRIOR ART CITED BY APPLICANT; 3 PRIOR ART PATENTS; FEE (\$130</u>	

Check No. 300 in the amount of \$753.00, calculated as follows:

Basic Fee (**Large Business \$760.00) (*Small Business \$380.00)	<u>\$380.00</u>
Additional Fees:	
Total number of claims <u>47</u>	
Total number of claims in excess of 20, <u>27</u> times (**\$18)(*\$9)	<u>243.00</u>
Number of independent claims <u>2</u>	
Number of independent claims minus 3, <u>--</u> times (**\$78)(*\$39)	<u>--</u>
Assignment recording fee (\$40)	<u>--</u>
Multiple dependent claims (**\$260) (*\$130)	<u>--</u>

TOTAL filing and assignment recording fees	<u>\$623.00</u>
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PETITION TO MAKE SPECIAL FEE	<u>130.00</u>
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CONVENTION DATE _____ for _____	Appln. No. <u>\$753.00</u>
---------------------------------	----------------------------

is claimed.

Priority Document: Enclosed Will follow

Respectfully submitted,

EZRA SUTTON, Reg. No. 25,770

ES/jmt
Enclosures

TUMOR NECROSIS FACTOR ANTAGONISTS FOR
THE TREATMENT OF NEUROLOGICAL DISORDERS

RELATED APPLICATION

5 This is a continuation-in-part of Application Serial No. 09/956,388, filed on February 24, 1999.

FIELD OF THE INVENTION

10 The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression; or demyelinating neurological disorders, including multiple sclerosis. More particularly, the TNF antagonists or TNF blockers, with or without the concurrent administration of methotrexate or Leflunomide, are used in a new treatment of these disorders by inhibiting the action of TNF in the cells of the human body. The use of these TNF antagonists or TNF blockers with methotrexate or Leflunomide results in the amelioration of these neurological conditions.

BACKGROUND OF THE INVENTION

20 Neurological disorders due to demyelinating disease (e.g. multiple sclerosis), immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. Common to all of these disorders is the fact that they can cause permanent neurological damage, that damage can occur rapidly and be irreversible, and that current treatment 25 of these conditions is unsatisfactory, often requiring surgery

DECLARATION FOR PATENT APPLICATION

Docket No. TOBINICK
3.0-007 (CIP)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
TUMOR NECROSIS FACTOR ANTAGONISTS FOR THE TREATMENT _____, the specification of which
OF NEUROLOGICAL DISORDERS
 (check one) is attached hereto.

was filed on _____ as
 Application Serial No. _____
 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

09/256,388 (Application Serial No.)	24 February 1999 (Filing Date)	Pending (Status—patented, pending, abandoned)
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(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)
--------------------------	---------------	---------------------------------------

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ezra Sutton, Reg. No. 25,770

Address all telephone calls to _____ at telephone no. (732) 634-3520
 Address all correspondence to _____

EZRA SUTTON, P.A.
 Plaza 9, 900 Route 9
 Woodbridge, New Jersey 07095

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Dr. Edward L. TOBINICK
 Inventor's signature Dr. Edward L. TOBINICK Date 3-20-99

Residence Los Angeles, California 90024-6903 Citizenship United States of America

Post Office Address 100 UCLA Medical Plaza, Suite 205
Los Angeles, California 90024-6903

Full name of second joint inventor, if any Arthur Jerome TOBINICK
 Second Inventor's signature Arthur Jerome TOBINICK Date 3-20-99

Residence Los Angeles, California 90024-6903 Citizenship United States of America

Post Office Address 100 UCLA Medical Plaza, Suite 205
Los Angeles, California 90024-6903

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of :
DR. EDWARD L. TOBINICK, et al :

Serial No. : Group Art Unit
Filed: : Examiner

For: TUMOR NECROSIS FACTOR
ANTAGONISTS FOR THE
TREATMENT OF NEUROLOGICAL
DISORDERS : March 23, 1999



Assistant Commissioner for Patents
Washington, D.C. 20231

PETITION TO MAKE SPECIAL
(MPEP Section 708.02)

Sir:

Applicant hereby files this Petition to make special this application for purposes of examination and payment of the issue fee, on the grounds of a pre-examination search. Applicant also submits the petition fee.

The application presents claims directed to a single invention. In case the Examiner believes that there is more than one invention, applicant hereby elects without traverse Claims 27 to 47.

SEARCH AREAS

A pre-examination search was made of the records of the U.S. Patent Office by applicant's attorney, Ezra Sutton. The field of search included Class 424, Subclasses 85.1, 133.1, 134.1, 143.1,

144.1, 145.1, and 158.1; Class 435, Subclasses 69.1, 69.7, 172.3, and 240.27; and Class 530, Subclasses 350, 351, 387.1, 387.3, 388.2, 388.23, 388.4, 866, and 868. Also, a computer search was performed using the terms TNF and tumor necrosis factor.

INVENTION SEARCHED

A method for inhibiting the action of TNF for treating neurological conditions in a human by administering a TNF antagonist for reducing damage to neuronal tissue or for modulating the immune response affecting neuronal tissue of the human. The TNF antagonist administered is selected from the group consisting of etanercept and infliximab. The TNF antagonist is administered subcutaneously, intravenously, intrathecally, or intramuscularly.

Methotrexate or Leflunomide may be administered concurrently with the TNF antagonist for demyelinating diseases and certain other neurological disorders.

PATENTS SELECTED IN SEARCH

U.S. Patent Nos.: 5,605,690

5,656,272

5,795,967

A copy of each patent is enclosed.

DISCUSSION OF PATENTS

U.S. Patent No. 5,605,690 discloses using TNF antagonists to suppress TNF-dependent inflammatory diseases, such as arthritis. However, this reference does not disclose treating the specific neurological disorders claimed in the present application.

U.S. Patent No. 5,656,272 discloses using TNF antagonists to treat Crohn's disease. However, this reference does not disclose treating the specific neurological disorders claimed in the present application.

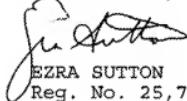
U.S. Patent No. 5,795,967 discloses using TNF antagonists to treat certain autoimmune diseases, such as arthritis, systemic lupus, and Crohn's disease. However, this reference does not disclose treating the specific neurological disorders claimed in the present application.

CONCLUSION

None of the prior art patents disclose or teach the specific subject matter recited in independent Claims 1 or 27, or render them obvious. Accordingly, this Petition should be granted.

Respectfully submitted,

EZRA SUTTON, P.A.



EZRA SUTTON
Reg. No. 25,770

Plaza 9, 900 Route 9
Woodbridge, New Jersey 07095
(732) 634-3520

ES/jmt

Enclosures

SERIAL NUMBER	FILING DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO
09/275,070	03/23/1999	424	1614	TOBINICK-3.0

APPLICANT
EDWARD L TOBINICK, LOS ANGELES, CALIFORNIA; ARTHUR JEROME TOBINICK,
LOS ANGELES, CALIFORNIA.

CONTINUING DOMESTIC DATA***
VERIFIED THIS APPLN IS A CIP OF 09/256,388 02/24/1999

371 (NAT'L STAGE) DATA***
VERIFIED

FOREIGN APPLICATIONS***
VERIFIED

FOREIGN FILING LICENSE GRANTED 05/07/1999

SMALL ENTITY

Foreign priority claimed 35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> no Met after Allowance	STATE OR COUNTRY CA	SHEETS DRAWINGS 0	TOTAL CLAIMS 47	INDEPENDENT CLAIMS 2
Verified and acknowledged Examiner's Name _____ Initials _____					

ADDRESS
EZRA SUTTON P A
PLAZA 9
900 ROUTE 9
WOODBRIDGE , NJ 07095

TITLE
TUMOR NECROSIS FACTOR ANTAGONISTS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS

FILING FEE RECEIVED S **623	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT NO. _____ for the following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of Time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> O Credit
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6,015,557

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2

**TUMOR NECROSIS FACTOR ANTAGONISTS
FOR THE TREATMENT OF
NEUROLOGICAL DISORDERS**

RELATED APPLICATION

This is a continuation-in-part of application Ser. No. 09/256,388, filed on Feb. 24, 1999, now abandoned.

FIELD OF THE INVENTION

The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression; or demyelinating neurological disorders, including multiple sclerosis. More particularly, the TNF antagonists or TNF blockers, with or without the concurrent administration of methotrexate or Leflunomide, are used in a new treatment of these disorders by inhibiting the action of TNF in the cells of the human body. The use of these TNF antagonists or TNF-blockers with methotrexate or Leflunomide results in the amelioration of these neurological conditions.

BACKGROUND OF THE INVENTION

Neurological disorders due to demyelinating disease (e.g. multiple sclerosis), immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. Common to all of these disorders is the fact that they can cause permanent neurological damage, that damage can occur rapidly and be irreversible, and that current treatment of these conditions is unsatisfactory, often requiring surgery and/or the use of pharmacologic agents, which are often not completely successful.

These neurological conditions include acute spinal cord trauma, spinal cord compression, spinal cord hematoma, cord confusion (these cases are usually traumatic, such as motorcycle accidents or sports injuries); nerve compression, the most common condition being a herniated disc causing sciatic nerve compression, neuropathy, and pain, but also including cervical disc herniation, causing nerve compression in the neck, carpal tunnel syndrome (non-RA); acute or chronic spinal cord compression from cancer (this is usually due to metastases to the spine, such as from prostate, breast or lung cancer); autoimmune disease of the nervous system; and demyelinating diseases, the most common condition being multiple sclerosis.

Steroid drugs such as cortisone that are used to treat the aforementioned neurological problems and conditions are particularly hazardous because they are used either at high dosage, with a corresponding increasing risk of side effects, or because they are used chronically, also increasing their adverse effects. Lastly, steroids are only partially effective or completely ineffective.

There remains a need for a new pharmacologic treatment of these aforementioned physiological problems of the nervous system associated with autoimmune disease, demyelinating diseases, trauma, injuries and compression with the pharmacological use of TNF antagonists or TNF blockers, which are greatly beneficial for the large number of patients whom these conditions affect. Two new drugs which are powerful TNF blockers are etanercept and infliximab. Etanercept or infliximab may be used for the immediate, short term and long term (acute and chronic) blockade of TNF in order to minimize neurologic damage mediated by TNF-dependent processes occurring in the aforementioned neu-

rological disorders. The use of these TNF antagonists or TNF blockers would result in the amelioration of these physiological neurological problems. Concurrent administration of methotrexate or Leflunomide with either etanercept or infliximab is the preferred treatment for demyelinating diseases and certain other neurological disorders.

DESCRIPTION OF THE PRIOR ART

Pharmacologic chemical substances, compounds and agents which are used for the treatment of neurological disorders, trauma, injuries and compression having various organic structures and metabolic functions have been disclosed in the prior art. For example, U.S. Pat. Nos. 5,756,482 and 5,574,072 to ROBERTS et al disclose methods of attenuating physical damage to the nervous system and to the spinal cord after injury using steroid hormones or steroid precursors such as pregnenolone, and pregnenolone sulfate in conjunction with a non-steroidal anti-inflammatory substance such as indomethacin. These prior art patents do not teach the use of a TNF antagonist or TNF blocker for the suppression and inhibition of the action of TNF in the human body to treat neurological disease, trauma, injury or compression, or autoimmune neurologic disease as in the present invention.

U.S. Pat. No. 5,605,690 to IACOBS discloses a method for treating TNF-dependent inflammatory diseases such as arthritis by administering a TNF antagonist, such as soluble human TNFR (a sequence of amino acids), to a human. This prior art patent does not teach the use of a TNF antagonist or TNF blocker for the suppression and inhibition of the action of TNF in the human body to treat neurological disease, trauma, injury or compression, or demyelinating neurologic disease, as in the present invention.

U.S. Pat. No. 5,656,272 to LE et al discloses methods of treating TNF-alpha-mediated Crohn's disease using chimeric anti-TNF antibodies. This prior art patent does not teach the use of a TNF antagonist or TNF blocker for the suppression and inhibition of the action of TNF in the human body to treat neurological trauma, injury or compression, or autoimmune neurologic disease, as in the present invention.

U.S. Pat. No. 5,650,396 discloses a method of treating multiple sclerosis (MS) by blocking and inhibiting the action of TNF in a patient. This prior art patent does not teach the use of the TNF antagonist as in the present invention.

None of the prior art patents disclose or teach the use of the TNF antagonist or TNF blocker of the present invention with the concurrent administration of methotrexate or Leflunomide for suppression and inhibition of the action of TNF in a human to treat neurological disease, trauma, injury or compression, or demyelinating neurologic disease, in which the TNF antagonist gives the patient a better opportunity to heal, slows disease progression, prevents neurological damage, or otherwise improves the patient's health.

Accordingly, it is an object of the present invention to provide a TNF antagonist, with or without the concurrent administration of methotrexate or Leflunomide, for a new pharmacologic treatment of neurological disorders, trauma, injuries and compression affecting the nervous system of the human body, or demyelinating neurologic disease, such that the use of these TNF antagonists will result in the amelioration of these neurological conditions.

Another object of the present invention is to provide a TNF antagonist, with or without the concurrent administration of methotrexate or Leflunomide, for providing suppression and inhibition of the action of TNF in a human to treat neurological injury, trauma or compression, or demyelinating neurologic disease.

DECLARATION FOR PATENT APPLICATION

Docket No. TOBINICK
3.0-007

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled TUMOR NECROSIS FACTOR ANTAGONISTS FOR THE TREATMENT, the specification of which

OF NEUROLOGICAL DISORDERS
(check one) is attached hereto.

was filed on _____ as

Application Serial No. _____

and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
			Yes	No
			Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ezra Sutton, Reg. No. 25,770

Address all telephone calls to _____ at telephone no. (732) 634-3520

Address all correspondence to _____

EZRA SUTTON, P.A.

Plaza 9, 900 Route 9

Woodbridge, New Jersey 07095

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Dr. Edward L. TOBINICK
 Inventor's signature X Date February 21, 1999
 Residence Los Angeles, California 90024-6903 Citizenship United States of America
 Post Office Address 100 UCLA Medical Plaza, Suite 205
Los Angeles, California 90024-6903

Full name of second joint inventor, if any ARTHUR JEROME TOBINICK
 Second Inventor's signature Cathleen Tobinick Date February 21, 1999
 Residence Los Angeles, California 90024-6903 Citizenship USA
 Post Office Address 100 UCLA MEDICAL PLAZA, SUITE 205
Los Angeles, California 90024-6903

Applicant or Patentee: Dr. Edward L. TOBINICK / Arthur J. Tosnick
Serial or Patent No.:
Filed or Issued: Docket No.:
TOBINICK 3.0-007

Title: TUMOR NECROSIS FACTOR ANTAGONISTS FOR THE

TREATMENT OF NEUROLOGICAL DISORDERS

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.2(f) AND 1.27(b)) - INDEPENDENT INVENTOR

As a below-named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled TUMOR NECROSIS FACTOR ANTAGONISTS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS

described in:

[X] the specification filed herewith

[] Application Serial No. _____, filed _____

[] Patent No. _____, issued _____

I have not assigned, granted, conveyed, or licensed and am under no obligation, under contract or law to assign, grant, convey, or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

[X] no such person, concern, or organization
[] persons, concerns, or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern, or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME _____

ADDRESS _____

[] INDIVIDUAL [] SMALL BUSINESS CONCERN [] NONPROFIT ORGANIZATION

FULL NAME _____

ADDRESS _____

[] INDIVIDUAL [] SMALL BUSINESS CONCERN [] NONPROFIT ORGANIZATION

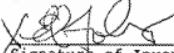
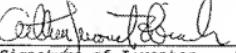
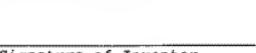
FULL NAME _____

ADDRESS _____

[] INDIVIDUAL [] SMALL BUSINESS CONCERN [] NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
 Signature of Inventor	 Signature of Inventor	 Signature of Inventor
Feb 21, 1999 Date	Feb 21, 1999 Date	Feb 21, 1999 Date

SERIAL NUMBER	FILING DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/256,388	02/24/99	514	1614	3.0-007

APPLICANT

EDWARD L. TOBINICK, LOS ANGELES, CA.

CONTINUING DOMESTIC DATA***

VERIFIED

371 (NAT'L STAGE) DATA***

VERIFIED

FOREIGN APPLICATIONS***

VERIFIED

IF REQUIRED, FOREIGN FILING LICENSE GRANTED 03/15/99 ** SMALL ENTITY **

Foreign Priority claimed 35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance	STATE OR COUNTRY CA	SHEETS DRAWING 0	TOTAL CLAIMS 24	INDEPENDENT CLAIMS 1
Verified and Acknowledged Examiner's Initials _____	Initials _____				

ADDRESS

EZRA SUTTON
PLAZA 9 ROUTE 9
WOODBRIDGE NJ 07095

TITLE

TUMOR NECROSIS FACTORS ANTAGONISTS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS

FILING FEE RECEIVED \$416	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT NO. _____ for the following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
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DECLARATION FOR PATENT APPLICATION

Docket No. TOBINICK
3.0-007

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **TUMOR NECROSIS FACTOR ANTAGONISTS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS**

(check one) is attached hereto.
 was filed on _____ as
 Application Serial No. _____
 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed				
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)

(Application Serial No.)	(Filing Date)	(Status—patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ezra Sutton, Reg. No. 25,770

Address all telephone calls to _____ at telephone no. (732) 634-3520

Address all correspondence to _____
EZRA SUTTON, P.A.
Plaza 9, 900 Route 9
Woodbridge, New Jersey 07095

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Dr. Edward L. TOBINICK Date X Feb 21, 1994

Inventor's signature X Date Feb 21, 1994 Citizenship United States of America

Residence Los Angeles, California 90024-6903 Citizenship United States of America

Post Office Address 100 UCLA Medical Plaza, Suite 205
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Full name of second joint inventor Arthur Jerome Tobinick Date February 21, 1994

Second Inventor's signature Arthur Jerome Tobinick Date February 21, 1994 Citizenship USA

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February 24, 1999

BY EXPRESS MAIL

Assistant Commissioner for Patents
Washington, D.C. 20231

File No.: TOBINICK 3.0-007
Inventor(s): Dr. Edward L. Tobinick
Title: TUMOR NECROSIS FACTORS ANTAGONISTS FOR
THE TREATMENT OF NEUROLOGICAL DISORDERS

Assignee: None

Dear Sir:

Enclosed herewith are the following documents in the above-
identified application for a Letters Patent of the United States:

1 Pages of Abstract Verified Statement for Small Entity Status
16 Pages of Specification Declaration, Power of Attorney & Petition
24 Number of Claims Two (2) return-addressed postcards
Sheets of Drawings (PLEASE PROVIDE FILING DATE & SERIAL NUMBER)
Assignment for Recording (attached to copy of this letter)

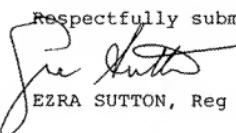
Check No. _____ in the amount of \$416.00, calculated as follows:

Basic Fee (**Large Business \$760.00) (*Small Business \$380.00)	\$380.00
Additional Fees:	
Total number of claims 24	
Total number of claims in excess of 20, 4 times (**\$18)(*\$9)	36.00
Number of independent claims 1	
Number of independent claims minus 3, -- times (**\$78)(*\$39)	--
Assignment recording fee (\$40)	
Multiple dependent claims (**\$260) (\$130)	
TOTAL filing and assignment recording fees	

CONVENTION DATE _____ for _____ Appln. No. _____
is claimed.

Priority Document: _____ Enclosed _____ Will follow

Respectfully submitted,


EZRA SUTTON, Reg No. 25,770

ES/jmt
Enclosures

TUMOR NECROSIS FACTOR ANTAGONISTS FOR
THE TREATMENT OF NEUROLOGICAL DISORDERS

FIELD OF THE INVENTION

5 The present invention relates to tumor necrosis factor (TNF) antagonists or TNF blockers for the treatment of neurological disorders, trauma, injuries or compression; or autoimmune neurological disorders. More particularly, the TNF antagonists or TNF blockers are used in a new treatment of these disorders by 10 inhibiting the action of TNF in the cells of the human body. The use of these TNF antagonists or TNF blockers results in the amelioration of these neurological conditions.

BACKGROUND OF THE INVENTION

Neurological disorders due to demyelinating disease, immune disease, inflammation, trauma, or compression, occur in different clinical forms depending upon the anatomic site and the cause and natural history of the physiological problem. Common to all of these disorders is the fact that they can cause permanent neurological damage, that damage can occur rapidly and be 20 irreversible, and that current treatment of these conditions is unsatisfactory, often requiring surgery and/or the use of pharmacologic agents, which are often not completely successful.

These neurological conditions include acute spinal cord trauma, spinal cord compression, spinal cord hematoma, cord 25 contusion (these cases are usually traumatic, such as motorcycle accidents or sports injuries); nerve compression, the most common condition being a herniated disc causing sciatic nerve compression,

00256388-020496


**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/256,388	02/24/99	TOBINICK	E 3.0-007

EZRA SUTTON
PLAZA 9 ROUTE 9
WOODBRIDGE NJ 07095

HM12/0927

EXAMINER	
JARVIS, W	
ART UNIT	PAPER NUMBER
1614	

DATE MAILED: 09/27/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Notice of Abandonment	Application No. 09/256,388	Applic... Tobinick
	Examiner William R. A. Jarvis	Group Art Unit 1614

This application is abandoned in view of:

- applicant's failure to timely file a proper response to the Office letter mailed on _____.
- A response (with a Certificate of Mailing or Transmission of _____) was received on _____, which is after the expiration of the period for response (including a total extension of time of _____ month(s)) which expired on _____.
- A proposed response was received on _____, but it does not constitute a proper response to the final rejection.
(A proper response to a final rejection consists only of: a timely filed amendment which places the application in condition for allowance; a Notice of Appeal; or the filing of a continuing application under 37 CFR 1.62 (FWC)).
- No response has been received.
- applicant's failure to timely pay the required issue fee within the statutory period of three months from the mailing date of the Notice of Allowance.
 - The issue fee (with a Certificate of Mailing or Transmission of _____) was received on _____.
 - The submitted issue fee of \$ _____ is insufficient. The issue fee required by 37 CFR 1.18 is \$ _____.
 - The issue fee has not been received.
- applicant's failure to timely file new formal drawings as required in the Notice of Allowability.
 - Proposed new formal drawings (with a Certificate of Mailing or Transmission of _____) were received on _____.
 - The proposed new formal drawings filed _____ are not acceptable.
 - No proposed new formal drawings have been received.
- the express abandonment under 37 CFR 1.62(g) in favor of the FWC application filed on _____.
- the letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.
- the letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.
- the decision by the Board of Patent Appeals and Interferences rendered on _____ and because the period for seeking court review of the decision has expired and there are no allowed claims.
- the reason(s) below:



WILLIAM R. A. JARVIS
PRIMARY EXAMINER
ART UNIT 1614

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TO: EXR. WILLIAM JARVIS

FAX NO. 703-308-2924

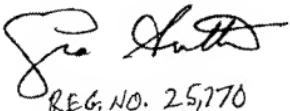
FROM: EZRA SUTTON

FAX NO. 1-732-634-3511
PHONE: 1-732-634-3520

TOTAL NUMBER
OF PAGES: 1

Re: S.N. 09/256, 388

Applicant hereby abandons the
above-identified application in
favor of Appl. S.N. 09/275, 070,
which has been allowed by
Examiner Jarvis.


REG. NO. 25,770